

## **DECLARATION UNDER 37 CFR §1.131**

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

### I, PAUL SCHIMMEL, declare:

- 1. That I am a co-inventor of the invention disclosed and claimed in the above-identified application;
- 2. That I am aware that claims 36 and 50 have been rejected as unpatentable;
- 3. That the rejections of these claims rely, in whole or in part, on the teachings of Schimmel *et al.*, U.S. Patent Publication No. US 2003/0017564 A1 ("Schimmel *et al.*"), which was published on January 23, 2003, and which claims the benefit of U.S. Provisional Application for Patent Serial No. 60/270,951, filed on February 23, 2001;
  - 4. That I am co-inventor of the Schimmel *et al.*;
- 5. That prior to February 23, 2001, in the United States of America, Keisuke Wakasugi and I had conceived, prepared, and successfully tested an isolated polypeptide which has an amino acid residue sequence consisting essentially of residues 71-471 of SEQ ID NO: 10 as claimed in U.S. Patent Application Serial No. 09/813,718;
- 6. That Exhibit A, attached hereto, is a true copy of a summary chart of human TrpRS constructs and showing, *inter alia*, TrpRS-T1, the polypeptide of SEQ ID NO: 10 mentioned above, prepared prior to February 23, 2001; and

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7. That the summary chart reproduced in Exhibit A describes an isolated polypeptide which has an amino acid residue sequence consisting essentially of residues 71-471 of SEQ ID NO: 10 beginning at the green arrow (i.e., SNHGP... etc.).

I declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

La Jolla, California

Dated 66 69.04

Paul Schimmel

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# Human TrpRS Constructs Summary

Full-Length TrpRS	NH2 COOH	<u>Size</u> 53Kd	<u>19</u>	Charging +	Charging Angiogenic Angiostatic +	Angiostatic -
Mini TrpRS (splice variant)	48	48Kd 5.8	5.8	+	ı	+
TrpRS – T1 (clevage product)	11 471	46Kd 5.9	5.9	+	ı	+
TrpRS – T2 (cleavage product)	94	43Kd 6.8	8.9	1	1	¢.

<sup>\*</sup>Note: A mutant of each of the four proteins has been made in which DLT(205-207) is replaced with ELR

1 MPNSEPASLL ELFNSIATQG ELVRSLKAGN ASKDEIDSAV KMLVSLKMSY KAAAGEDYKA DCPPGNPAPT SNHGPDATEA 81 EEDEVDPWTV QTSSAKGIDY DKLIVRFGSS KIDKELINRI ERATGQRPHH FLRRGIFFSH RDMNQVLDAY ENKKPFYLYT 241 MGMSSGFYKN VVKIQKHVTF NQVKGIFGFT DSDCIGKISF PAIQAAPSFS NSFPQIFRDR TDIQCLIPCA IDQDPYFRMT 321 RDVAPRIGYP KPALLHSTFF PALQGAQTKM SASDPNSSIF LTDTAKQIKT KVNKHAFSGG RDTIEEHRQF GGNCDVDVSF 161 GRGPSSEAMH VGHLIPFIFT KWLQDVFNVP LVIQMTDDEK YLWK<u>DLT</u>LDQ AYGDAVENAK DIIACGFDIN KTFIFSDLDY Ø 401 MYLTFFLEDD DKLEQIRKDY TSGAMLTGEL KKALIEVLQP LIAEHQARRK EVTDEIVKEF MTPRKLSFDF

<sup>\*</sup>Note: All are recombinant constructs and have an N-terminal Met and a C-terminal KLAAALEHHHHHH